

WHAT IS CLAIMED IS:

1. A method for providing a regional E911 network, said method comprising:
assigning public safety answering points (PSAPs) to ports located in a telephone network, wherein each said port is associated with a calling party number (CPN) and a geographic location;

identifying an incoming emergency call from an IP device, said IP device corresponding to a unique machine access code address and said incoming emergency call including an incoming CPN;

determining which said port is an entry port associated with said IP device, wherein input to said determining includes said unique machine access code address and said incoming CPN;

connecting said incoming emergency call to one of said PSAPs corresponding to said entry port; and

transmitting said CPN and said geographic location data to one of said PSAPs corresponding to said entry port.

2. The method of claim 1 wherein said determining includes:

searching a local automatic location information (ALI) database for said entry port corresponding to said incoming CPN and to said machine access code address;
and

if said incoming CPN is not located in said local ALI databases then searching a regional ALI database for said entry port corresponding to said incoming CPN and to said machine access code address.

3. The method of claim 2 wherein said local ALI database is updated in response to said IP device being connected to one of said ports.

4. The method of claim 2 wherein said regional ALI database is updated in response to said IP device being connected to one of said ports.

5. The method of claim 2 wherein said local ALI database is updated in response to said IP device being disconnected from one of said ports.
6. The method of claim 2 wherein said regional ALI database is updated in response to said IP device being disconnected from one of said ports.
7. The method of claim 1 wherein said incoming emergency call is from an advanced features customer.
8. The method of claim 1 wherein said incoming emergency call is from an E911 service handling customer.
9. The method of claim 1 wherein said incoming emergency call is from a wireless device.
10. The method of claim 1 wherein said geographic location data is an emergency location identification number.
11. The method of claim 1 wherein said geographic location data is geodetic.
12. The method of claim 11 wherein said geodetic data includes GPS data.
13. The method of claim 11 wherein said geodetic data includes a geo-location code including a country field, a state field, a county field, a mile field, an acre field, a sector field and a floor field.
14. The method of claim 13 wherein said country field is three digits, said state field is three digits, said county field is three digits, said mile field is four digits, said acre field is three digits, said sector field is one digit and said floor field is three digits.

15. A system for providing a regional E911 network, said system comprising:
one or more PSAPs;
an ISCP including a regional ALI database;
a switch;
a router including one or more ports and in communication with said switch;
an IP device in communication with one of said ports in said router; and
a network location server (NLS) including a local ALI database, said NLS in
communication with said PSAP, said ISCP and said switch, wherein said NLS
includes instructions to implement a method comprising:

identifying an incoming emergency call from said IP device, said IP
device corresponding to a unique machine access code address and said
incoming emergency call including an incoming CPN;

determining which said port is an entry port associated with said IP
device, wherein input to said determining includes said unique machine access
code address and said incoming CPN;

connecting said incoming emergency call to one of said PSAPs
corresponding to said entry port; and

transmitting said CPN and said geographic location data to one of said
PSAPs corresponding to said entry port.

16. The system of claim 15 wherein said determining includes:
searching said local automatic location information (ALI) database for said
entry port corresponding to said incoming CPN and to said machine access code
address; and

if said incoming CPN is not located in said local ALI databases then
transmitting a request to search said regional ALI database for said entry port
corresponding to said incoming CPN and to said machine access code address.

17. The system of claim 15 wherein said NLS further includes a NLS switch,
a gateway server, a network file server and a call management server.

18. The system of claim 15 further including a firewall in communication with said router and said switch.

19. The system of claim 15 wherein said switch is a class 5 switch.

20. The system of claim 15 wherein said IP device is a wireless telephone.

21. The system of claim 15 wherein said IP device is a wired telephone.

22. The system of claim 15 wherein said IP device is a cellular telephone.

23. The system of claim 15 wherein said switch uses SS7 signaling.

24. The system of claim 15 wherein said connecting said incoming emergency call to one of said PSAPs is performed using SS7.

25. A computer program product for providing a regional E911 network, the computer program product comprising:

a storage medium readable by a processing circuit and storing instructions for execution by the processing circuit for facilitating a method comprising:

assigning public safety answering points (PSAPs) to ports located in a telephone network, wherein each said port is associated with a calling party number (CPN) and a geographic location;

identifying an incoming emergency call from an IP device, said IP device corresponding to a unique machine access code address and said incoming emergency call including an incoming CPN;

determining which said port is an entry port associated with said IP device, wherein input to said determining includes said unique machine access code address and said incoming CPN;

connecting said incoming emergency call to one of said PSAPs corresponding to said entry port; and

transmitting said CPN and said geographic location data to one of said PSAPs corresponding to said entry port.